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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/546,971	04/11/2000	Johannes H.M. Spruit	PHN 17, 408	4167	
24737	590 02/24/2004		EXAMINER		
PHILIPS INTELLECTUAL PROPERTY & STANDARDS			ORTIZ CRIADO, JORGE L		
P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510		ART UNIT PAPER NUMB			
-	•		2655		
			DATE MAILED: 02/24/2004	. 9	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	n No	Applicant(s)			
Office Action Summary The MAILING DATE of this communication a		Application	**				
		09/546,97	1	SPRUIT ET AL.			
		Examiner		Art Unit			
		Jorge L Or		2655			
Period for R		ication appears on the	cover sneet with the c	orrespondence address			
THE MAI - Extensions after SIX (- If the peric - If NO peric - Failure to Any reply	TENED STATUTORY PERIOD F LING DATE OF THIS COMMUNI s of time may be available under the provisions 6) MONTHS from the mailing date of this comn od for reply specified above is less than thirty (3 od for reply is specified above, the maximum st reply within the set or extended period for reply received by the Office later than three months a tent term adjustment. See 37 CFR 1.704(b).	ICATION. of 37 CFR 1.136(a). In no evenunication. o) days, a reply within the statuatutory period will apply and will will, by statute, cause the appl	int, however, may a reply be tin story minimum of thirty (30) day I expire SIX (6) MONTHS from ication to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status							
1)⊠ Re	sponsive to communication(s) file	ed on <u>03 December 20</u>	<u>003</u> .				
•	☐ This action is FINAL . 2b) ☐ This action is non-final.						
3) <u></u> Sin	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
clo	sed in accordance with the practi	ce under <i>Ex parte Qu</i>	ayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposition	of Claims			•			
4)⊠ Cla 4a) 5)⊠ Cla 6)⊠ Cla 7)⊠ Cla	aim(s) <u>1-17</u> is/are pending in the a Of the above claim(s) is/a aim(s) <u>16 and 17</u> is/are allowed. aim(s) <u>1-7 and 9-14 are</u> is/are rejection aim(s) <u>8 and 15</u> is/are objected to aim(s) are subject to restrict	re withdrawn from corected.					
Application	Papers						
10)⊠ The App Rej	e specification is objected to by the drawing(s) filed on <u>03 December</u> plicant may not request that any objected to placement drawing sheet(s) including to oath or declaration is objected to	er 2003 is/are: a) \boxtimes action to the drawing(s) by the correction is require	e held in abeyance. Se ed if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority und	er 35 U.S.C. § 119						
a)	Certified copies of the priority	documents have bee documents have bee of the priority docume onal Bureau (PCT Rule	n received. n received in Applicat ents have been receive e 17.2(a)).	ion No ed in this National Stage			
· <u> </u>	References Cited (PTO-892)	270.040	4) Interview Summary				
3) Information	Draftsperson's Patent Drawing Review (I on Disclosure Statement(s) (PTO-1449 of (s)/Mail Date		Paper No(s)/Mail D 5) Notice of Informal 6 6) Other:	ate Patent Application (PTO-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a personhaving ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-7 and 9-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nagara et al. U.S. Patent No. 6,147,957 in view of Tanaka et al. U.S. Patent No. 5,881,037.

Regarding claim 1, Nagara et al. discloses a method of recording information in units on a record carrier having a track for consecutively recording the information units at addressable locations (See col. 1, lines 47-57; col. 4, lines 29-46; Figs. 2,3,7,13),

the information being represented in the track by series of marks of different runlengths between a minimum runlength (3T) and a maximum runlength (11T) and synchronizing patterns of marks which patterns do not occur in the series of marks (See col. 1, lines 47-57; col. 4, lines 17-51; Figs. 2,3,5,6,7,13), said method comprising:

(a) encoding at least one information unit into a modulated signal comprising signal elements corresponding to said marks (See col. 4, lines 9-12; col. 6, lines 15-29; Fig. 3,5,6,7),

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- (b) scanning said track up to a link position before a selected one of said addressable locations (See col. 4, lines 9-51; col. 6, lines 15-29; Fig. 3,5,6,7), and
- (c) recording the modulated signal from the link position, characterized in that (See col. 4, lines 9-51; col. 6, lines 15-29; Fig. 3,5,6,7)
- (d) the modulated signal is provided at the begin and/or at the end with a link signal element corresponding to a link mark of at most the minimum runlength (2T) (See col. 4, lines 9-51; col. 6, lines 15-29; col. 7, lines 33-37; Fig. 3,5,6,7).

Nagara et al. does not expressly disclose wherein the synchronization patterns comprise at least one long mark of at least the maximum runlength.

However this feature is well known in the art as evidenced by Tanaka et al., which discloses synchronization pattern including at least one long mark in the synchronizing pattern; at least one long mark of at least the maximum runlength (See col. 9, line 45 to col. 10 lines 1-67).

Therefore it would have been obvious to one with ordinary skill in the art at the time of the invention to include at least one long mark in the synchronizing pattern, in order to discriminate the synchronization from the other data such as video and/or audio as suggested by Tanaka et al.

Regarding claim 2, the combination of Nagara et al. with Tanaka et al. would show the link signal element corresponds to a mark shorter than the minimum runlength (2T) (See Nagara et al. col. 7, lines 33-37; Fig. 6)

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Regarding claim 3, a device for recording information in units on a record carrier having a track for consecutively recording the information units at addressable locations (See col. 1, lines 5-57; col. 4, lines 29-46; Figs. 1,2,3,7,13),

the information being represented in the track by series of marks of different runlengths between a minimum runlength (3T) and a maximum runlength (11T) and synchronizing patterns of marks, which patterns do not occur in the series of marks (See col. 1, lines 47-57; col. 4, lines 17-51; Figs. 2,3,5,6,7,13)

said device comprising encoding means for encoding at least one information unit into a modulated signal comprising signal elements corresponding to said marks (See col. 4, lines 9-12; col. 6, lines 15-29; Fig. 1,3,5,6,7),

and recording means for scanning said track up to a link position before a selected one of said addressable locations and recording the modulated signal from the link position (See col. 3 line 31 to col. 4, line 51; Fig. 1),

characterized in that the encoding means are arranged for providing the modulated signal at the begin and/or at the end with a link signal element corresponding to a link mark of at most the minimum runlength (2T) (See col. 4, lines 9-51; col. 6, lines 15-29; col. 7, lines 33-37; Fig. 3,5,6,7).

Nagara et al. does not expressly disclose wherein the synchronization patterns comprise at least one long mark of at least the maximum runlength.

However this feature is well known in the art as evidenced by Tanaka et al., which discloses synchronization pattern including at least one long mark in the synchronizing pattern; at least one long mark of at least the maximum runlength (See col. 9, line 45 to col. 10 lines 1-67).

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Therefore it would have been obvious to one with ordinary skill in the art at the time of the invention to include at least one long mark in the synchronizing pattern; at a runlength longer than the sum of the maximum runlength and the runlength of the link mark, in order to discriminate the synchronization from the other data such as video and/or audio as suggested by Tanaka et al.

Regarding claim 4, the combination of Nagara et al. with Tanaka et al. would show wherein said runlengths are expressed in steps of a channel bit (See Nagara et al. col. 1, lines 47-57; col. 4, lines 17-51; Figs. 2,3,5,6,7,13),

and the encoding means are arranged for providing the link signal element corresponding to a link mark one channel bit shorter than the minimum runlength (2T)(See Nagara et al. col. 7, lines 33-37; Fig. 6).

Regarding claim 5, the combination of Nagara et al. with Tanaka et al. would show synchronization pattern including at least one long mark in the synchronizing pattern; at a runlength longer than the sum of the maximum runlength and the runlength of the link mark (See Tanaka et al. col. 9, line 45 to col. 10 lines 1-67).

Regarding claim 6, the combination of Nagara et al. with Tanaka et al. would show wherein the encoding means comprise synchronizing means for providing the synchronizing pattern having said at least one long mark followed by a short mark of a runlength shorter than the

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maximum runlength (See Nagara et al col. 4, lines 9-12; col. 6, lines 15-29; col. 7, lines 33-37; Fig. 3,5,6,7)

and the encoding means are arranged for providing a second link signal element after the link signal element at the begin of the modulated signal, the second link signal element corresponding to a mark differing from the short mark (pattern 1, 3T) (See Nagara et al col. 4, lines 9-12; col. 6, lines 15-29; col. 7, lines 33-37; Fig. 3,5,6,7).

Regarding claim 7, the combination of Nagara et al. with Tanaka et al. would show wherein the encoding means comprise means for variably selecting one out of a set of fixed linking sequences that each start with the link signal element followed by further signal elements for recording marks up to the first synchronizing pattern (See Nagara et al col. 4, lines 9-51; col. 6, lines 15-29; col. 7, lines 33-37; Fig. 3,5,6,7)

substantially half of the linking sequences of the set having an odd number of mark boundaries (first half 3T odd, second half 2T) (See Nagara et al col. 4, lines 9-57; col. 6, lines 15-29; col. 7, lines 33-37; Fig. 3,5,6,7).

Regarding clam 9, the combination of Nagara et al. with Tanaka et al. would show wherein the device comprises means for processing or compressing digital or analog input signals such as audio and/or video to units of information (See Nagara et al. col. 4, lines 9-12; col. 6, lines 15-29; col. 7, lines 33-37; Fig. 3,5,6,7).

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Regarding claim 10, the combination of Nagara et al. with Tanaka et al. would wherein the input signals are audio and/or video signals (see Tanaka et al. Abstract)

Regarding claim 11, the combination of Nagara et al. with Tanaka et al. would wherein the encoding means comprise synchronizing means for providing said at least one long mark in the synchronizing pattern at a runlength longer than the sum of the maximum runlength and the runlength of the link mark (See Tanaka et al. col. 9, line 45 to col. 10 lines 1-67).

Regarding claim 12, the combination of Nagara et al. with Tanaka et al. would a record carrier produced by the method of claim 1 (See Nagara et al. col. 1, lines 5-57; col. 4, lines 29-46; Figs. 1,2,3,7,13) (See Tanaka et al. col. 9, line 45 to col. 10 lines 1-67)

Regarding claim 13, Nagara et al. discloses a method comprising:

encoding an information unit forming a recording signal of signal elements (See col. 4, lines 9-12; col. 6, lines 15-29; Fig. 3,5,6,7), the recording signal containing:

a linking signal element, a synchronizing pattern of signal elements, and the encoded information unit (See col. 4, lines 9-51; col. 6, lines 15-29; col. 7, lines 33-37; Fig. 3,5,6,7); selecting an addressable location on the track of a record carrier; scanning the track up to a link position before the selected addressable location (See col. 4, lines 9-51; col. 6, lines 15-29; Fig. 3,5,6,7), and

recording the recording signal as marks corresponding to the signal elements and starting at the link position, the marks having different run lengths, the marks representing the information

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unit having run lengths that vary from a minimum run length to a maximum runlength, the pattern of marks representing the synchronizing pattern not occurring in the marks representing the information unit (See col. 1, lines 47-57; col. 4, lines 17-51; Figs. 2,3,5,6,7,13) and the mark representing the link signal element having a run length of at most the minimum runlength (See col. 4, lines 9-51; col. 6, lines 15-29; col. 7, lines 33-37; Fig. 3,5,6,7).

Nagara et al. does not expressly disclose wherein the synchronization patterns including a long mark of at least the maximum runlength.

However this feature is well known in the art as evidenced by Tanaka et al., which discloses synchronization pattern including at least one long mark in the synchronizing pattern; at least one long mark of at least the maximum runlength (See col. 9, line 45 to col. 10 lines 1-67).

Therefore it would have been obvious to one with ordinary skill in the art at the time of the invention to include at least one long mark in the synchronizing pattern; at a runlength longer than the sum of the maximum runlength and the runlength of the link mark, in order to discriminate the synchronization from the other data such as video and/or audio as suggested by Tanaka et al.

Regarding claim 14, Nagara et al. discloses a recording device comprising:

encoding means for encoding at least one information unit, and for variably selecting, one out of a set of fixed linking sequences that each start with a link signal element followed by further signal elements (See col. 4, lines 9-12; col. 6, lines 15-29; Fig. 3,5,6,7), and

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for providing a recording signal of signal elements, the recording signal containing the selected linking sequence, a synchronizing pattern, and the encoded information unit (See col. 4, lines 9-51; col. 6, lines 15-29; col. 7, lines 33-37; Fig. 3,5,6,7)and

recording means for selecting an addressable location in the track of a record carrier, and for scanning said track up to a link position before the selected addressable location and for recording the recording signal starting at the link position, the marks having different run lengths, the marks representing the information unit having run lengths that vary from a minimum run length to a maximum runlength, the pattern of marks representing the synchronizing pattern not occurring in the marks representing the information unit (See col. 1, lines 47-57; col. 4, lines 17-51; Figs. 2,3,5,6,7,13) and

the mark representing the link signal element having a run length of at most the minimum runlength (See col. 4, lines 9-51; col. 6, lines 15-29; col. 7, lines 33-37; Fig. 3,5,6,7).

Nagara et al. does not expressly disclose wherein the synchronization patterns including a long mark of at least the maximum runlength.

However this feature is well known in the art as evidenced by Tanaka et al., which discloses synchronization pattern including at least one long mark in the synchronizing pattern; at least one long mark of at least the maximum runlength (See col. 9, line 45 to col. 10 lines 1-67).

Therefore it would have been obvious to one with ordinary skill in the art at the time of the invention to include at least one long mark in the synchronizing pattern, in order to discriminate the synchronization from the other data such as video and/or audio as suggested by Tanaka et al.

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Allowable Subject Matter

3. Claims 8 and 15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

4. Claims 16 and 17 are allowed.

Response to Arguments

5. Applicant's arguments with respect to claims 1-10 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jorge L Ortiz-Criado whose telephone number is (703) 305-8323. The examiner can normally be reached on Mon.-Thu.(8:30 am - 6:00 pm), Alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doris H To can be reached on (703) 305-4827. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

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